Amendment dated

Reply to Office Action of November 2, 2006

AMENDMENTS TO THE CLAIMS

1 (Previously Presented) A method for identifying topology of a network, the network including a plurality of switches, each switch having ports, each port of a switch either being connected to another port or not connected to another port, the method comprising:

under control of each switch, determining whether each port of the switch is connected to a connected-to port; and

under control of a network manager,

for each of the switches.

retrieving an indication of which of the ports of the switch are connected to a connected-to port; and

for each port that is connect to a connected-to port.

sending a query message through that port to the connected-to port; and

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receiving a response from the connected-to port identifying the connected-to device and connected-to port,

wherein the query message is sent via out-of-band communications

wherein mappings from each switch and port to its connect-to device and connected-to port indicates the topology of the network.

- (Original) The method of claim 1 wherein processing of the network manager is distributed to the switches.
 - 3 (Cancelled)
- (Cancelled) 5. (Original) The method of claim 4 wherein the network manager identifies switches of the network via the received responses.

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6 (Original) The method of claim 5 wherein when a switch is identified, the network manager performs the retrieving of the indications of which of the ports of the switch are connected to a connected-to port.

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- 7 (Original) The method of claim 1 wherein the connected-to device is a node.
- 8. (Original) The method of claim 1 wherein the connected-to device is a switch
- (Previously Presented) A method for identifying topology of a network, the network including a plurality of routing devices, each routing device having ports, the method comprising:

retrieving an indication of which of the ports of the routing devices are connected to another port;

for each port that is connect to another port,

sending a query message through that port to the other port; and receiving a response from the other port identifying the other device and the other port,

wherein the guery message is sent via out-of-band communications.

- 10. (Original) The method of claim 9 including generating a mapping from each routing device and port to device and port to which it is connected to indicate the topology of the network.
 - (Original) The method of claim 9 wherein a routing device is a switch.
- 12 (Original) The method of claim 9 wherein a routing device is an interconnect fabric module

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13. (Original) The method of claim 9 wherein the routing devices use virtual

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addresses to route frames.

14. (Original) The method of claim 9 wherein the identification of the topology is

performed by a network manager.

15. (Original) The method of claim 14 wherein the network manager is

distributed to the routing devices.

16. (Cancelled)

17. (Cancelled)

18. (Original) The method of claim 9 wherein the routing devices of the network

are identified via the received responses.

19. (Original) The method of claim 18 wherein when a routing device is

identified, retrieving an indication of which of the ports of the routing device are connected

to another port.

20. (Original) The method of claim 9 wherein the retrieving of an indication of

which of the ports of the routing devices are connected to another port includes sending a

request to the routing device.

21. (Original) The method of claim 9 wherein the retrieving of an indication of

which ports of the routing devices are connected to another port includes receiving a

message from the routing device.

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22 (Original) The method of claim 9 wherein each routing device determines which of its ports are connected to another port and the retrieving of an indication of which of the ports of the routing devices are connected to another port includes transmitting the determined information to a network manager.

- 23. (Previously Presented) A network manager for identifying topology of a network, the network including a plurality of routing devices, each routing device having ports, comprising:
 - a component that retrieves indications of which of the ports of the routing devices are connected to another port; and
 - a component that sends a query message through each port that is indicated as connected to another port to the other port and that receives a response from the other port identifying the other device and the other port.

wherein the query message is sent via out-of-band communications.

- 24. (Original) The network manager of claim 23 including a component that generates a mapping from each routing device and port to the device and port to which it is connected to indicate the topology of the network.
- 25. (Original) The network manager of claim 23 wherein a routing device is a switch
- 26 (Original) The network manager of claim 23 wherein a routing device is an interconnect fabric module.
- 27. (Original) The network manager of claim 23 wherein the routing devices use virtual addresses to route messages.

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 (Original) The network manager of claim 27 including a component that configures each routing device with routing data for virtual addresses.

29. (Original) The network manager of claim 28 wherein each frame of data

identifies a destination virtual address.

30. (Cancelled)

(Cancelled)

32. (Original) The network manager of claim 23 wherein the routing devices of

the network are identified via the received responses.

 (Original) The network manager of claim 32 wherein the component that retrieves an indication of which of the ports of the routing device are connected to a

another port retrieves the indication when a routing device is identified.

34. (Original) The network manager of claim 33 wherein the component that

retrieves an indication sends a request to a routing device.

35. (Original) The network manager of claim 23 wherein the component that

retrieves an indication of which ports of the routing devices are connected to another port

includes receiving a message from the routing device.

36. (Original) The network manager of claim 23 wherein each routing device

determines which of its ports are connected to other ports and the retrieving of an

indication of which of the ports of the routing devices are connected to another port

includes receiving the determinations from the routing devices.

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37-41. (Cancelled)

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